

Abstract

A current folding cell has current inputs and current outputs. Input currents are transferred from one current path to another and finally leading to the current outputs to establish a continuous folding characteristic. The signal current through one of the current paths often does not need to be substantially zero around the folding point in the folding characteristic. Comparator outputs in the cell provide digital outputs corresponding to the currents at the current inputs. An A/D converter can be constructed utilizing such current folding circuit cells in cascade and/or in parallel. The well-determined relationship between folder outputs can be used in a feedback loop to reduce or eliminate mismatch contributions. A mixer can be constructed using such current folding cells.

(Fig. 9)